PROJECT NUMBER: 2105
PROJECT TITLE: Filter Development
PROJECT LEADER: W. A. Nichols
PERIOD COVERED: June, 1988

I. FILTER MATERIALS, LTD.

A. **Objective**: Develop polypropylene tow that is equivalent to cellulose acetate.

B. **Results**: A specially designed pump in the wax application system failed due to the low viscosity of the wax. A higher viscosity wax and different pump design are being evaluated.

Sample filters were produced for shipment to Brazil and for testing on a Philippine model.

C. **Plans**: Operating conditions for the wax application system will be established.

II. NEW FILTER CONCEPTS

A. **Objective**: Develop unique products using novel filters.

B. **Results**:

Modified Plastic Filter: Samples were remade with 50% and 60% rear band dilution for shipment to E.E.M.A. Internal subjective testing approved the product for shipment. As soon as analytical data is received, the samples will be shipped.

C. **Plans**: An alternate method for flute blockage of the plastic filter is being investigated.

III. MENTHOL ON FOIL

A. **Objective**: Support the introduction of menthol on foil process.

B. **Status**: A second ethanol emission study was conducted in Louisville. Samples are being analyzed.

C. **Plans**: Produce samples as requested. Test the third mentholator when fabrication is completed.

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